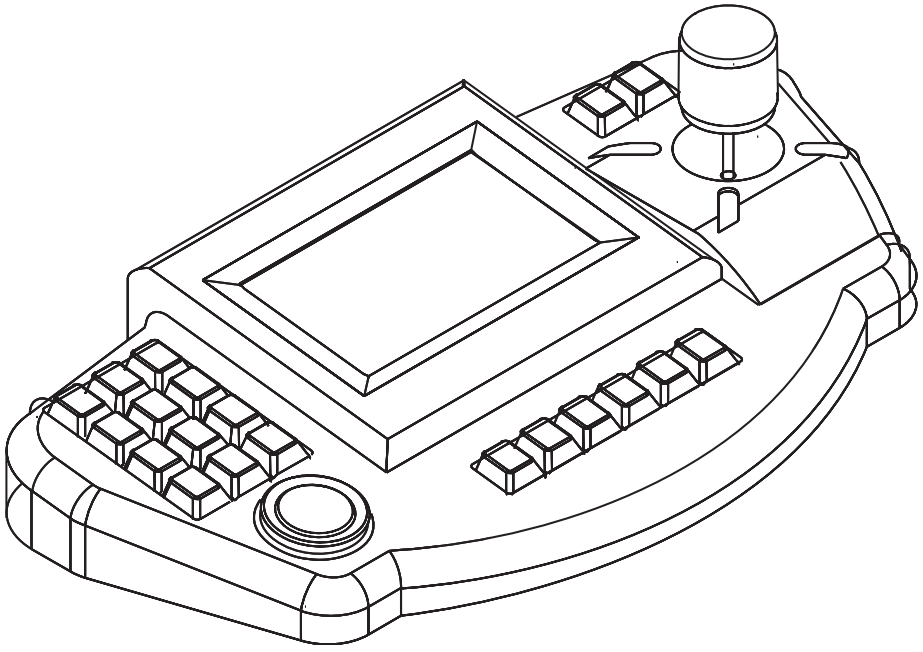
CONTROL KEYBOARD

USER MANUAL

GSS-5000



Caution before installation

Thank you very much for having Green keyboard. You are strongly required to study this manual before installation. Facing problem or something you don't understand while using, please consult with your systems installers or service personnel.

Caution before Installation.

Install the unit after you read following advice. Avoid installing in places as below,	
	□ **Places with too much high or low temperatures** ● Extreme temperatures will damage the unit. ● Always use it within the recommended temperature range of 0℃ to 40℃
	□ **Where there are excessive dust, smoke, moisture or humidity.** ● Using this appliance under such conditions may result in fire, electrical shock or other serious damage
	□ **Where the unit can be blended with all kinds of oil or gas** ● It may cause the problem if you expose in those conditions.
	□ **Places with vibration or impact** ● Excessive shock may damage the appliance
	□ **Do not place the appliance in direct sunlight** ● It may discolor the unit or cause a problem.
	□ **Places with high frequency waves, power cables** ● Using the appliance under conditions such as electromagnetic waves cause a problem.

Caution in use

Install the unit after you read following advice. Avoid following acts,	
	□ **Do not try to disassemble the appliance or put any foreign element.** ● It may cause a problem.
	□ **Turn the power off before installation.** ● Before you install the unit, please check the power voltage and turn the switch on.
	□ **Never have the unit impacted or operated.** ● If you expose the unit to the strong impact or if the button or terminal are forced to operate, it will be damaged. (Be careful in using the joystick in particular, if you put too much power on it while moving left, right or zoom, it may be damaged)

This product has been designed and manufactured in accordance with the harmonized European standards, following the provisions of the below stated directives.

Electromagnetic Compatibility Directive 89/336/EEC(EN61000-3-2:1995, EN61000-3-3:1995, EN50081-1:1992, EN50082-1:1997)

This devise complies with part 15 of the fcc rules operation is subject to the following two conditions: (1) This device may not cause harmful interference and (2) This device must accept any interference received including interference that may cause undesired operation

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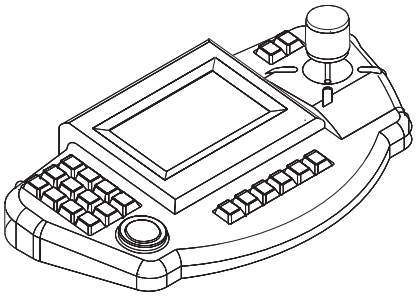
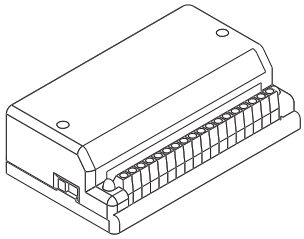
1. Features & Distinctions

A. COMPONENTS

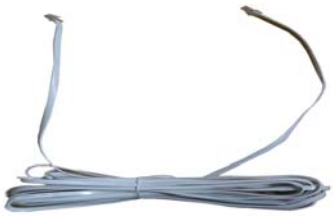
1) Body of the Keyboard : 1 PC



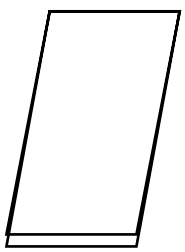
2) Data Box (Junction Box) : 1 PC



3) Connector Cable (Modular jack) : 1 EA



4) User Manual : 1 EA



B. Summary & Features

1) Summary

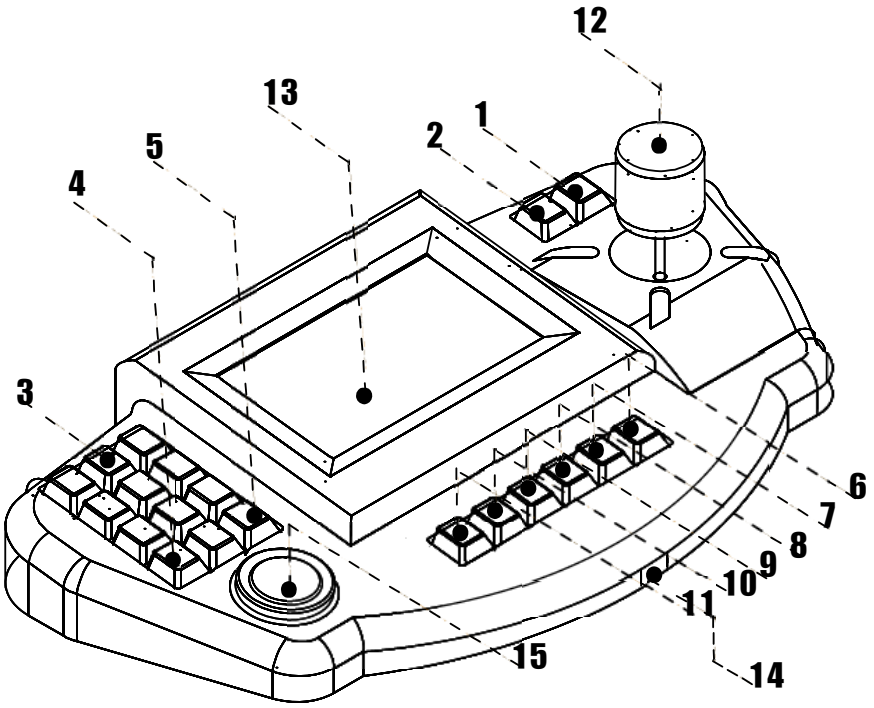
This unit is a multiple CCTV control keyboard enables to control Speed Dome Camera, CCTV Receiver, Matrix System, DVR, Quad and so on. You can set up a variety of functions of the speed dome camera and make efficient use of the dome camera for better surveillance by gearing all kinds of sensors.

This appliance can be used as a Matrix main(sub) keyboard, CCTV Transmitter main(sub) keyboard at user's option.
This manual is explaining only about controlling CCTV Transmitter, please refer to the matrix manual for the detailed use of Matrix system.

2) Features

- Locking monitor and camera control.
- Convenient control by 5.5 Inch Touch Screen
- Controls up to 512 cameras.
- Controls maximum 32 monitors (when connecting with matrix, GMX-25632)
- Pan/ Tilt/ Zoom controlled by 3-axis joystick.
- Max. 500 Preset widens the surveillance area.
- PAN/ TILT Swing (Auto Pan)
- 12 Group-Tour
- Set and Run the Tour
- Set and Run PTZ Trace.
- Set up on OSD menu of the camera.
- Set and Run Spiral.
- Gearing with alarm receiver unit(controls 512 Sensors)
- Controls DVR with Jog-shuttle (Soon be developed)
- Remote control from Remote Controller
- Users with password only can set up the function.

C. Keyboard Functional Keys



1), 2) F/N, F/F: controls focus while using Zoom lens

3) Numeric keypad: used to input numerical value or other functions

4) CLR(CLEAR): used to input number.

5) ENT(ENTER): press this key to input command or save, run designated commands.

6) SET : used to set up Matrix or enter keyboard user setup mode

7) MENU : as a functional key .

8) ALARM: activate or release the alarm when gearing dome camera with ARU (alarm receiver unit)

9) STATUS : used to enter camera & matrix setup menu.

10) MON: selects monitor.

11) CAM : selects camera

12) Joystick: helps you control the camera up/ down, left/ right, zoom in/ out

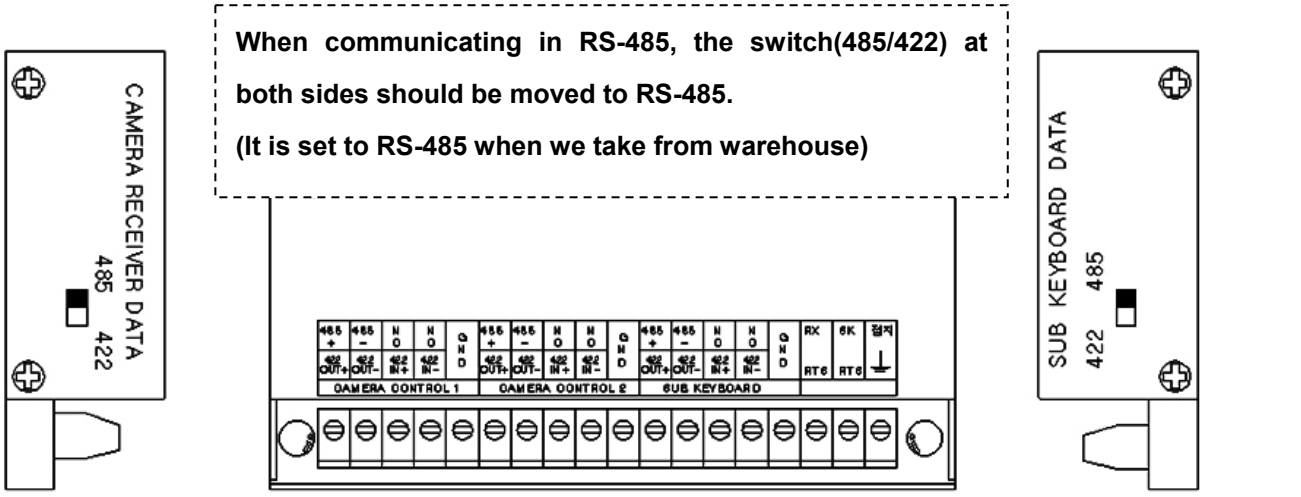
13) Touch Screen: support setup button of each function

14) Sensor: allows to remotely control keyboard with remote controller (soon be released)

15) Jog-shuttle: controls DVR(to be released).

D. Data Box (Junction box)

Set the communication mode to either RS-485 or RS-422 at your option.



485+	485-	NC	NC	GND	485+	485-	N C	N C	GND	485+	485-	N C	N C	GND	RX RTS	RX RTS	접지
422 OUT	422 OUT-	422 IN+	422 IN-		422 OUT+	422 OUT-	422 IN+	422 IN-		422 OUT	422 OUT-	422 IN+	422 IN-				
CAMERA CONTROL 1					CAMERA CONTROL 2					SUB KEYBOARD							

INPUT/OUTPUT TERMINAL OF DATA JUNCTION BOX

Camera controls 1: This is the terminal that you can connect with up to 128 speed dome cameras or receivers.
(Choose either 485 or 422 communication mode and connect in parallel)

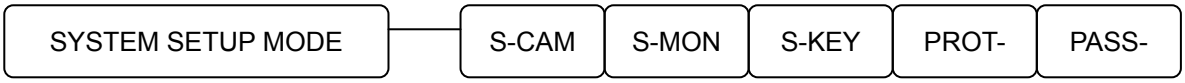
Camera controls 2: this is the terminal that you can connect with up to 128 speed dome cameras or receivers.
(Choose either 485 or 422 communication mode and connect in parallel)
(All together, 256 cameras can be controlled as above connection)

Sub keyboard : This is the terminal that you can connect sub-keyboard with when hoping to use sub-keyboard and it does duplex transmission.
(Parallel connection is available when using RS485, but if you use RS422 only 1:1 connection is available.)

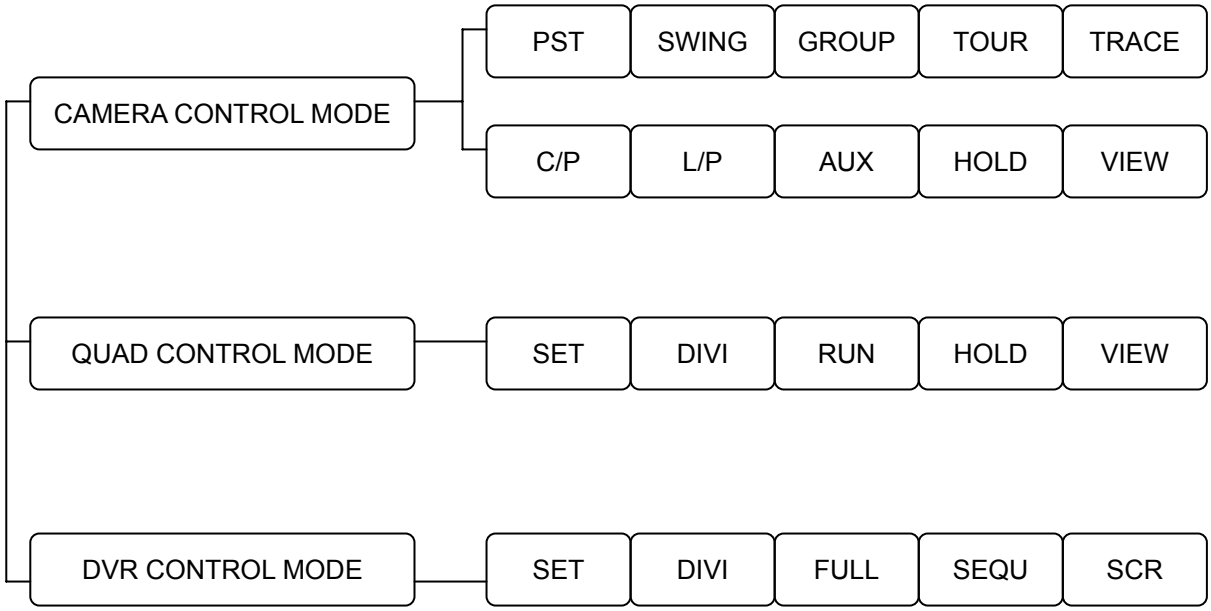
2. Basic Setup of Function

A. Menu Tree

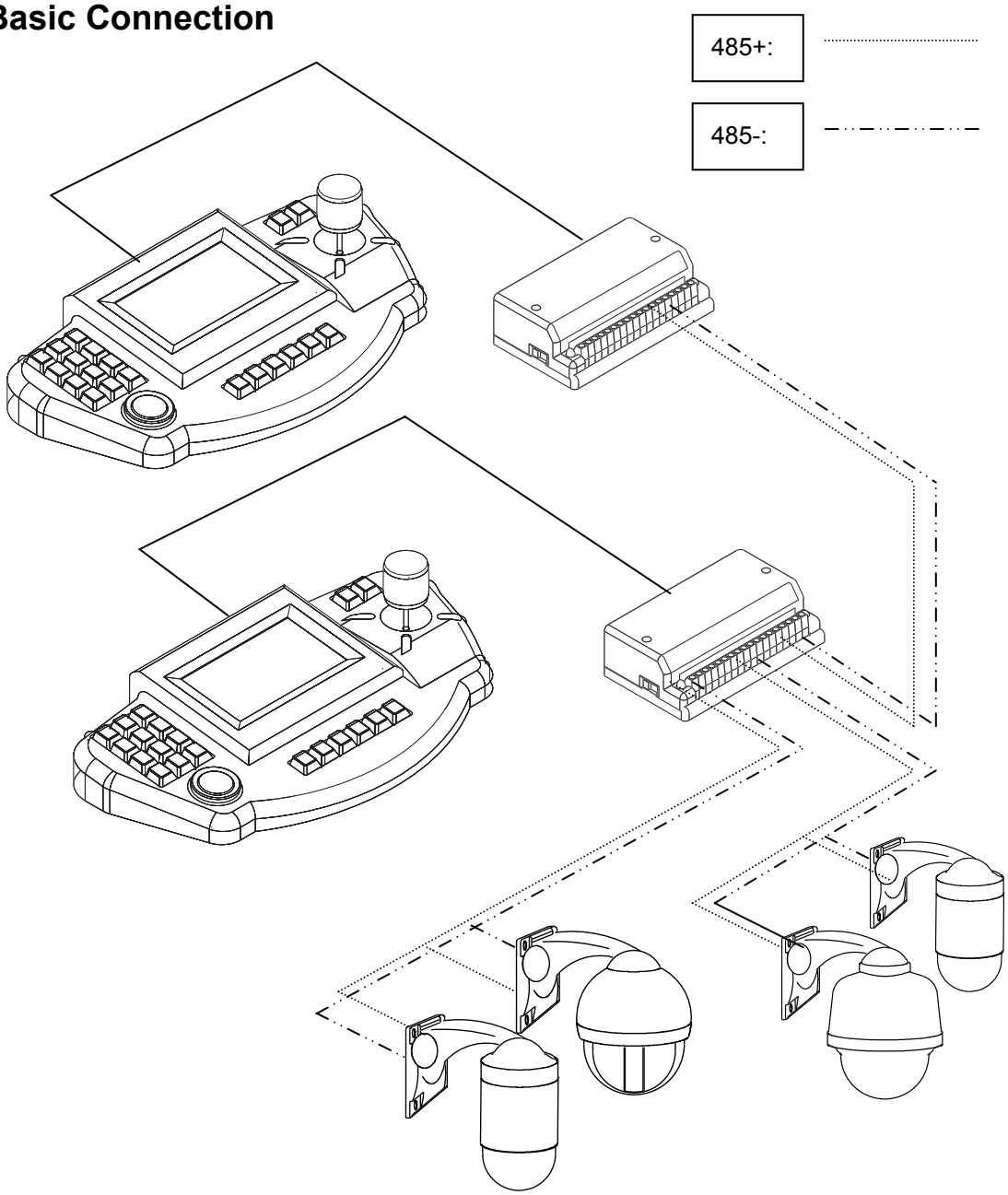
1) SYSTEM SETUP MODE



2) CCTV CONTROL MODE



B. Basic Connection



3 lines (485+, 485-, GND) can be used for data line.

(Ground could be of help when earth is stable, but normally 485+, 485- can be used for data connection)

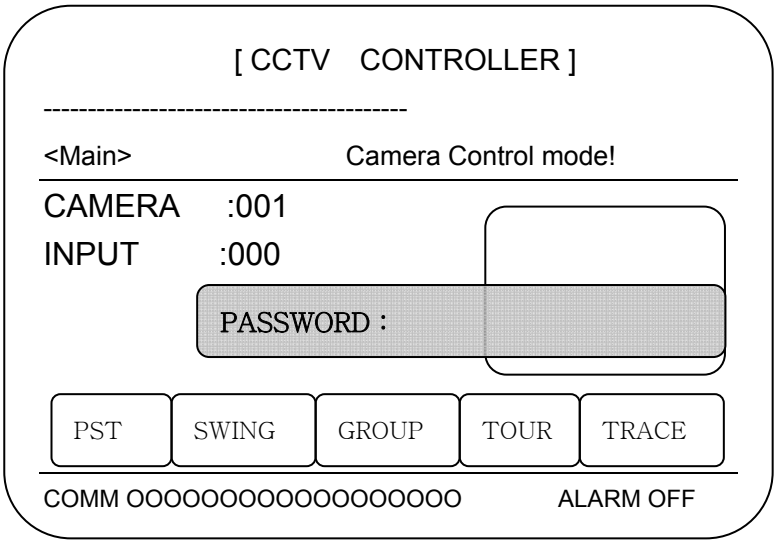
C. Initial Setup for the Keyboard.

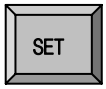
At first, you should decide whether you will use the keyboard as a Matrix main/ sub-keyboard, or CCTV Transmitter main/ sub-keyboard. (default value is “CCTV Transmitter”)

- Use the keyboard as it was (default) if you don’t need sub-keyboards.
- If you plan to use only 1 sub-keyboard, just reset the sub-keyboard. (use the main keyboard wit default value)
- In case you install more than 2 sub-keyboards, you will have to reset both main and sub-keyboards

1) Entering Setup Mode

Selecting Main/ Sub Keyboard, locking camera/ monitor, setting protocol and changing password can be done in this mode.

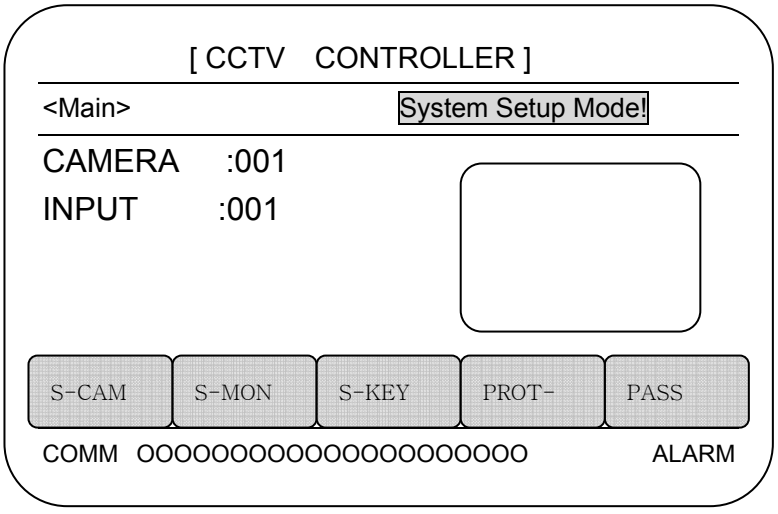


① Press 

key for about 3 seconds and window for password will pop up as left picture.

② Input password.

(Default value is 1111)



③ Select any setup menu on the screen when the picture as left(System Setup Mode) shows up,

(Refer to each detailed directions.)

3. System Setup Mode

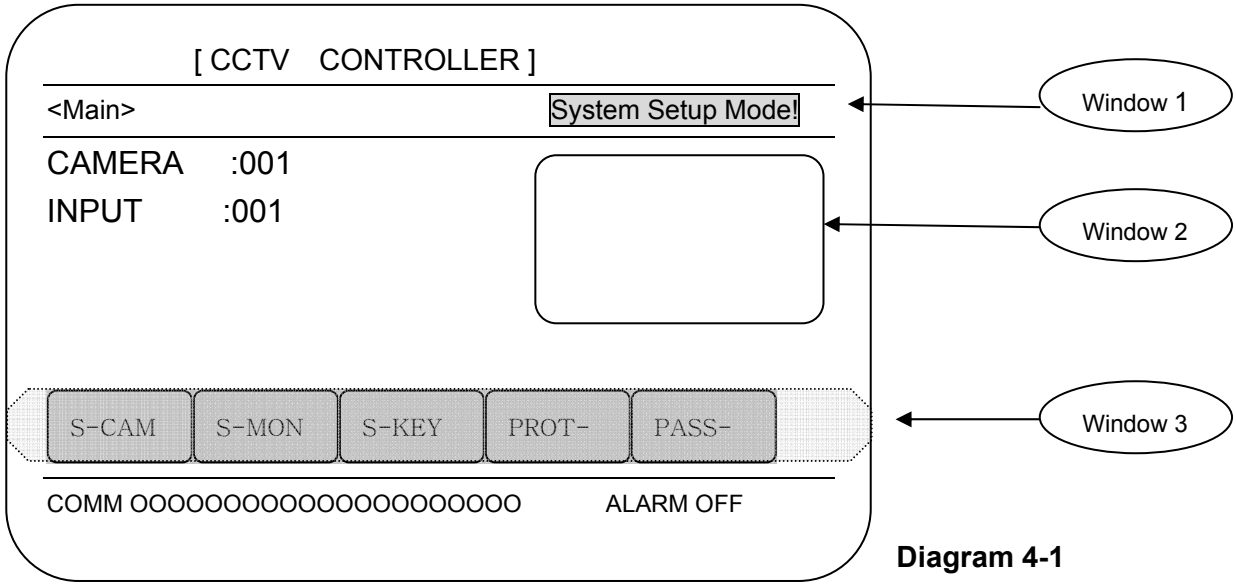


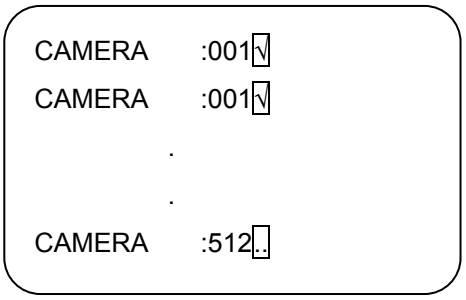
Diagram 4-1

1) Setup for Camera Use

Set up the camera you wish to use here on this keyboard.

① Touch S-CAM button.

② A message "Set Camera to use!" will show up in window 1 and followings will appear in window 2.



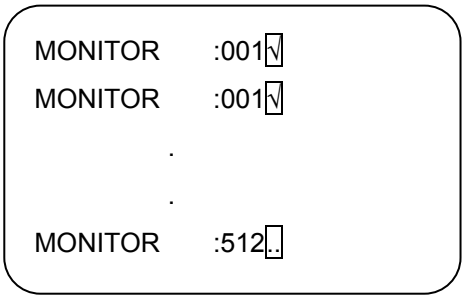
- Move the joystick left/ right to select or release the camera at your option.
- If a tick sign(√) is seen in the rectangle, camera is selected and if the tick sign is not shown, it means not selected.
- Press **SET** key once you are done with all setup and the keyboard will automatically reboot after saving.

2) Setting Monitor

You can designate the monitor you wish to use at this mode.

① Touch S-MON

② A message "Set Monitor to use!" will appear in window 1 and followings will show up at the left picture.



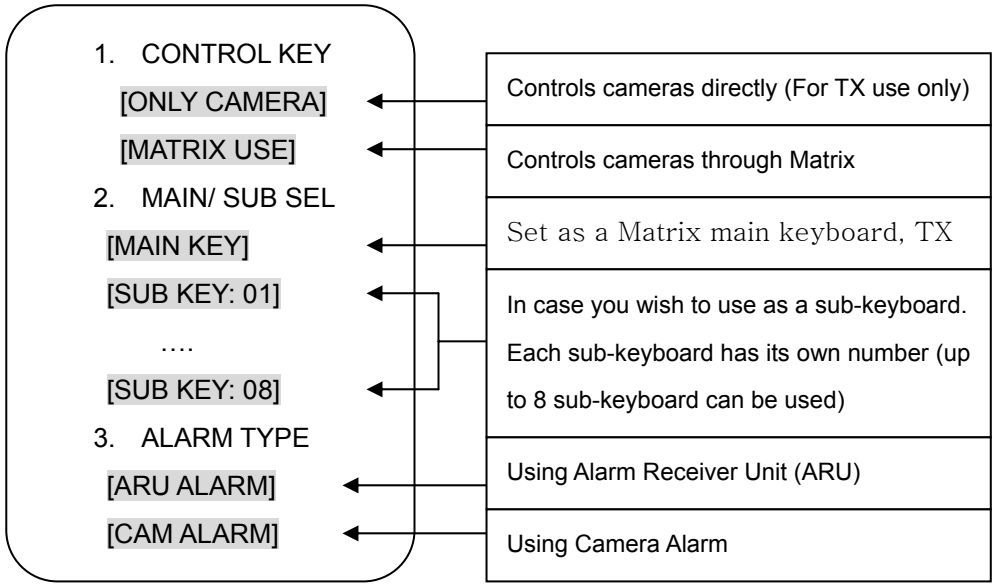
- Move the joystick left/ right to select or release monitors.
- If a tick sign (√) shows up in the rectangle monitors are selected and if the tick sign is not shown, it means the monitors are not selected and can't be controlled.
- If the correction is completed press **SET** key and it will automatically reboot and be saved.

3) Setting Keyboard

You can set the keyboard as you like in accordance with its usage.

① Touch S-KEY

② A message “Set Keyboard to use!” will appear in window 1 and classifications will show up as below,

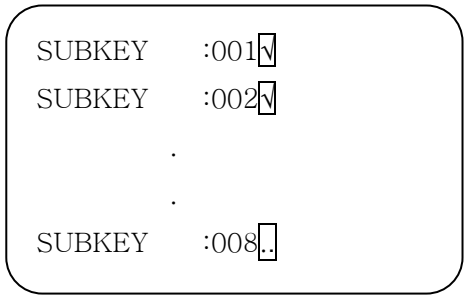

1. CONTROL KEY
[ONLY CAMERA]
[MATRIX USE]
2. MAIN/ SUB SEL
[MAIN KEY]
[SUB KEY: 01]
….
[SUB KEY: 08]
3. ALARM TYPE
[ARU ALARM]
[CAM ALARM]
Controls cameras directly (For TX use only)
Controls cameras through Matrix
Set as a Matrix main keyboard, TX
In case you wish to use as a sub-keyboard. Each sub-keyboard has its own number (up to 8 sub-keyboard can be used)
Using Alarm Receiver Unit (ARU)
Using Camera Alarm

③ Setup the keyboard by moving joystick left/ right, up/ down.

④ If the correction is completed do not forget to press “SET” key to save and reboot.

⑤ Setting as a sub-keyboard

Press “SET” key when the keyboard is set as a Main in 2.MAIN/ SUB SEL and window as left will be seen in the window 2 of Diagram 4-1.



Here you will be asked the number of sub-keyboards connecting with main keyboard.

Put the √ sign if the keyboard is connected and press SET key at the last minute to save and reboot.

Default value is “SUBKEY :001√“

※ Caution

- If you set wrong, turn off the power and try again from the beginning.
- If you once set up the value, it does not change permanently regardless of the power on/ off.
- When setting up several sub-keyboards be careful not to overlap the number of the sub-keyboard.
- If there are any sub-keyboards overlapped, it will not work.

4) How to Set Protocol

You will learn how to set protocol here.

① Touch PROT key with your finger.

② A message, Set protocol to use! will be shown in window 1 and following message will appear in window 2

1. PROTOCOL

2. COMM SPEED
(9600, N, 8, 1)

- Move the joystick left/ right to choose a protocol at No.1
(Supports PELCO, SAMSUNG)
- Make a choice for a protocol and pick up a baud rate.
(Supports 2400, 4800, 9600bps)
- Press the **SET** key after the correction and the value would be automatically saved and reboot.

5). Password Setup

You can create or change the password here. Default value is 1111.

① Touch PASS button.

② A message “Set password to use!” will appear in window 1 and followings will show up in window 2.

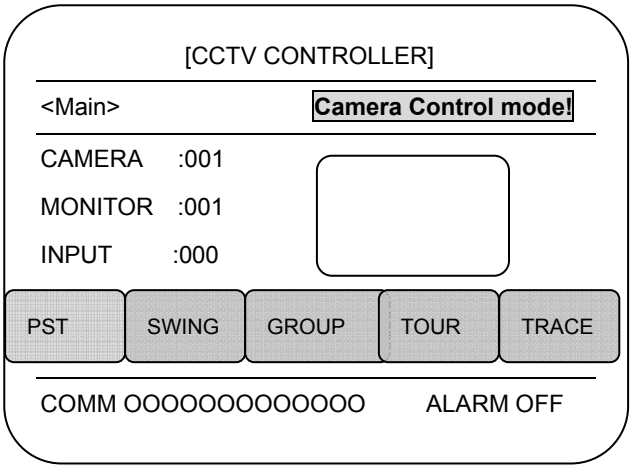
1. PASSWORD
OLD :
NEW :
MORE :

- OLD : Input previous PASSWORD
- NEW : Input new PASSWORD
- MORE : Confirm the new PASSWORD again
- Once you are done with correction press **SET** key, then it will automatically save and reboot

4. Setup at Control Mode

In this chapter, you may learn the usage of detailed setup for Camera, DVR, Quad and launch into each mode by using STATUS button.

A. Setting Camera Control Mode



1) Set up PRESET(PST)

This function allows the camera to automatically move to the designated positions and the keyboard can program up to 500 preset positions for each camera. The memorized preset position can be replaced with new preset position (new value). Follow the steps as below to set.

① Move the camera to you wish to have the camera memorized.

② Input PRESET position (1에서 500번까지) SET ➡ 1~500 ➡ PST

③ Run PRESET : press preset number programmed 1~500 ➡ PST

④ Deleting each PRESET

Press CLR key till you hear beep (3secs.) and 1~500 ➡ PST ➡ ENT

⑤ Deleting all PRESET positions

Press CLR button till you hear beep (3secs.) and PST ➡ ENT

※ Maximum number of PRESET positions can be subject to the features of the camera or receiver.

2) Setting SWING

You may select only 2 preset positions memorized from what you had set at preset mode(in horizontal or vertical) and exercise surveillance repeatedly over the memorized areas. The keyboard can program either Pan Swing or Tilt Swing.

① Set Swing mode

SET ➡ SWING ➡ 1 (PAN) / 2 (TILT) ➡ ENT ➡ 1 ~ 256 ➡ ENT ➡ 1 ~ 256

(either 1 or 2 should be selected) (starting preset No.) (ending preset No.)

➡ ENT ➡ 1 ~ 127 ➡ ENT ➡ 1 ~ 64 ➡ SET

(dwell time) (moving speed)

※ Dwell time means the time the camera stays for before it moves from starting point to ending point and dwell time can be set for 1~127seconds.

※ Moving speed is the camera's speed which moves from starting point to ending point and maximum speed is 64.

※ 1 for PAN SWING 2 for TILT SWING should be set. Starting point and ending point for PRESET should be in horizontal (Pan), vertical (Tilt). Otherwise it may not work properly.

② Run Swing

1 (Pan) or 2 (Tilt) ➡SWING

③ Stop Swing

Press SWING button or touch the joystick.

※ When this function is used as a Auto Pan function on CCTV Receiver, SWING can be pressed to stop and it can not be stopped with joystick.

3) Set GROUP

This is a sequent surveillance function using preset points. Maximum 12 PRESET POINTS can be bound for 1 Group and it allows user to repeatedly observe with designated speed, dwell time. Up to 12 GROUPs available.

① Set GROUP

SET ➡ GROUP ➡ 1~12 ➡ ENT ➡ 1~256 ➡ ENT ➡ 1~64

Input GROUP No. (1 ~ 12)

Input PRESET No. (1 ~ 256)

Moving speed (1 ~ 64)

➡ ENT ➡ 1~127 ➡ ENT ➡ Input again from PRESET number to keep going on.

Dwell Time (1 ~ 127)

※ If you wish to input preset in other GROUP after you complete one Group, do it after you finish with SET button.

※ If you are done with all settings go back to normal mode by pressing SET button.

② Run GROUP

Press Group number 1~12 ➡ GROUP

③ Stop GROUP

Press GROUP button or touch joystick.

④ Clear GROUP

CLR ➡ GROUP ➡ ENT

※ Hold the CLR key till you hear beep (3secs.) and press GROUP, ENT key..

Each Group (1~6) can not be deleted, all of them should be deleted together.

4) Set TOUR (Auto-Tour Surveillance)

Maximum 12 GROUP can be bound into 1 TOUR sequence that is Auto-Tour with memorized Groups.

① Set TOUR

SET ➡ TOUR ➡ 1~12 ➡ ENT ➡

Enter a Group No.(1~12)

To add more Groups, enter GROUP number and ENT

② Run / Stop TOUR

Press TOUR button to run, press TOUR button again or touch the joystick to stop.

③ Clear TOUR

CLR ➡ TOUR ➡ ENT

※ Hold down the CLR key till you hear beep (3secs.) and press TOUR and ENT key.

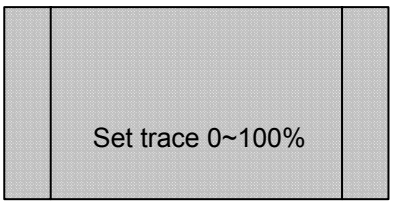
※ Please note that Group will be cleared if you clear the Tour..

5) Set TRACE

This function allows you to track (play back) the movement the user had operated with panning, titling, zooming for more than 180seconds.

① Set TRACE

SET ➡ TRACE ➡ Moving Joystick with P/T/Z ➡ SET



Monitor

※ The procedure percentage will show up on the monitor as left picture while the camera moves (during setup)

② Run/ Stop TRACE

Touch TRACE on the screen to run TRACE and just touch joystick to stop TRACE.

③ Clear memorized TRACE

CLR ➡ TRACE ➡ ENT

* Please study camera manual for more details about Trace function.

6) Turning ON/OFF the Camera, Light Power

Select a receiver (camera) you wish to ON/OFF [1~128] ➡ [CAM]

① Camera Power ➡ [C/P] ➡ [ON] or [OFF]

② Light Power ➡ [L/P] ➡ [ON] or [OFF]

② AUX1, AUX2 Power ➡ [AUX] ➡ [ON] or [OFF]

※ This function is only subject to CCTV Receiver.

B. Setting Quad Control Mode

SET	→	QUAD setup mode
DIVI	→	Divide the video
RUN	→	Run the videos
HOLD	→	Stop the running videos
VIEW	→	View the selected channel

※ Only works together with Quad Controller(GQC-160) and connected with some specific Quads.

C. Setting DVR Control

SET	→	DVR setup mode
DIVI	→	Divide the videos
FULL	→	View the selected image in full
SEQU	→	Sequence the videos
SCR	→	Set division or rotation mode

※ Only some specific DVR can be working together.

5. Other Detailed Functions

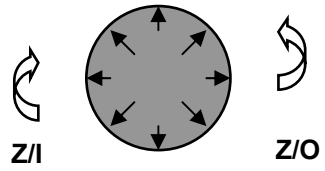
A. Selecting Camera

Press any camera number (1~255) you wish to control and CAM key.

1 ~ 255 → CAM

B. Select Joystick

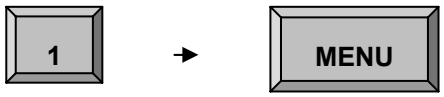
Move the joystick left/ right or on the diagonal.



C. OSD Setup Mode

1) Entering OSD Menu

It brings in camera own menu and the menu will appear with beep sound on monitor if you input as below.

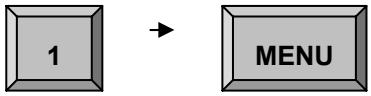


2) Control OSD Menu

The cursor will be flickering on monitor (waiting for command)

Move the Joystick right/ left, up/ down and put the cursor as desired.

3) Getting out of OSD Menu



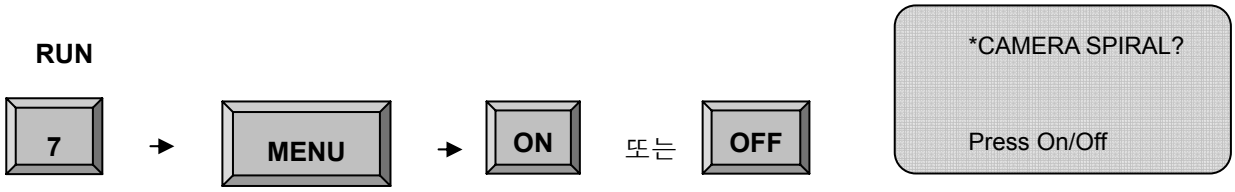
Do as above and the menu on the monitor will disappear and the OSD menu will be released..

※ This function can be used in the speed dome camera only.

D. Other Setup Mode.

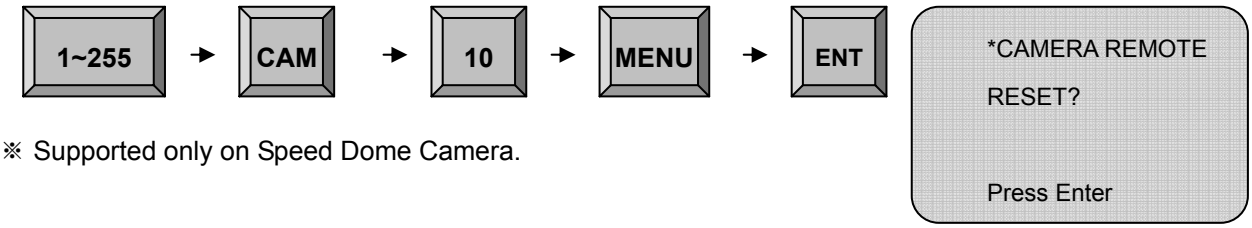
1) Spiral Function

This function is supported only on speed dome cameras, the fixed panning speed and tilting speed are operated at the same time that can make spiral surveillance.



2) Camera Remote Reset

Initialize the camera or receiver in case they have a problem.



※ Supported only on Speed Dome Camera.

3) Keyboard Buzzer On/Off

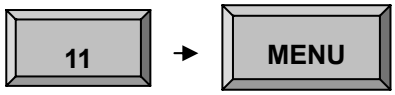
Turn on/ off the buzzer of the keyboard.

4) LCD Contrast setting

Adjust the brightness by moving joystick up/ down.

5) Converting Up/ Down

Convert the control of up/ down, for instance, If you move the joystick down, it will go up.

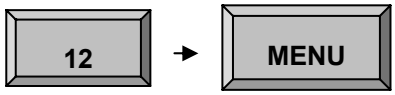


*TILT UP/DOWN
CHANGE?
Press Enter

※ This function can be operated only on GRX-502A

6) Converting Left/ Right

Convert the control left/ right, for instance, if you move the joystick left, it will move right.

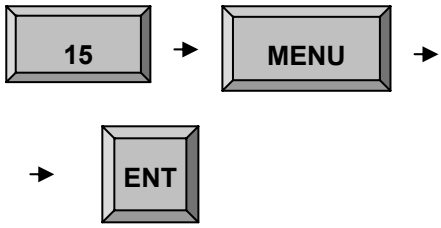


*PAN LEFT/RIGHT
CHANGE?
Press Enter

※ This function can be operated only on DRX-502A

7) Convert the voltage of Lens Control

When the movement of Zoom Lens is too slow or fast, you can change the voltage to adjust the proper speed.



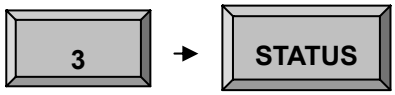
Number Key
(1=6V, 2=9V, 3=12V)

*ZOOM LENS
POWER CHANGE?
Press Numric
1,2,3 ENT

※ This function can be operated only on GRX-502A.

8) Checking CCTV Receiver Model

Used to check out the camera or CCTV receiver installed outside.



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Information such as Model number and manufacturer will show up on both monitor and screen of keyboard.

Press CLR key to make it disappear.

6. More Cautions and Check Points.

Cautions in Use

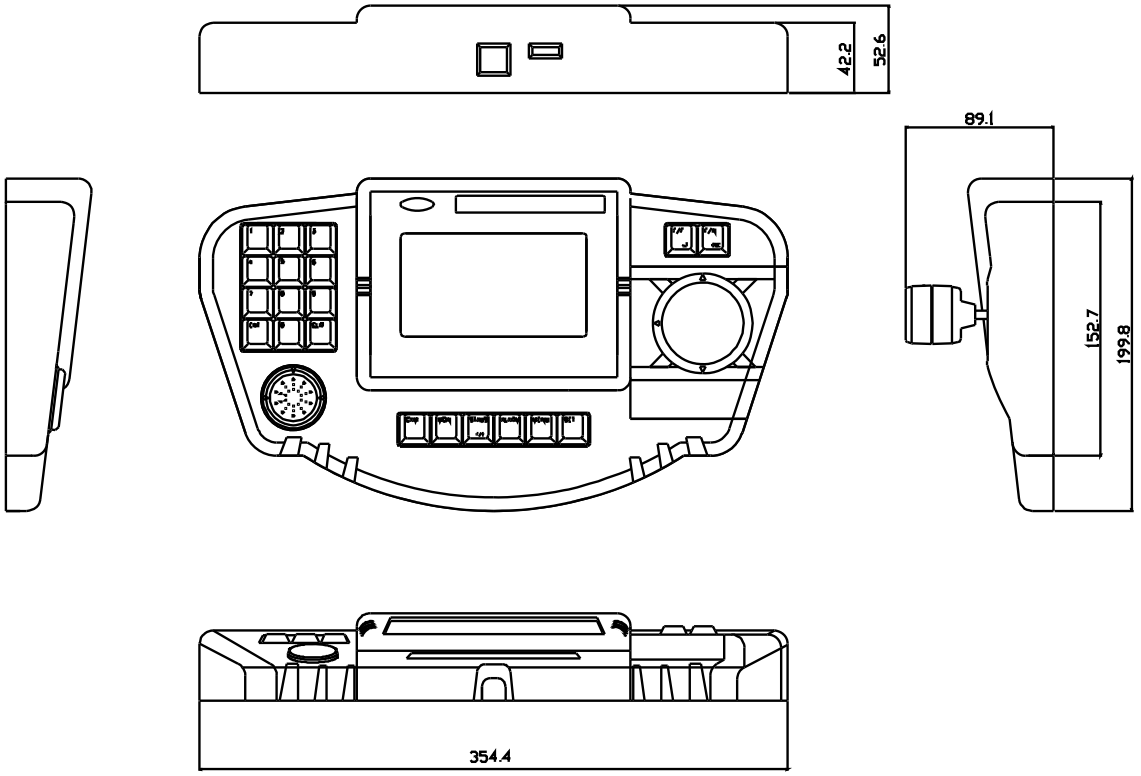
- Do not give a power to the unit in the process of installing.
- It is recommended that the unit be installed in a well-ventilated place since the operating range is 5˚C~40˚C.
- Do not expose the unit to extreme impact, which may cause serious damage.
- Avoid installing in the direct rays of the sun.
- Never install the unit in place with strong magnetic, an electric or a radio wave which cause a problem in communication.
- Be careful not to connect wrong cable or line while installing.
- Never operate the unit until the buzz(beep sound) goes off after turning on the power.
- Give a power to the unit after you check the insulated wire connected outside.
- Always use the keyboard cable provided with the keyboard.
- Do not give a too much strength to the joystick while controlling.

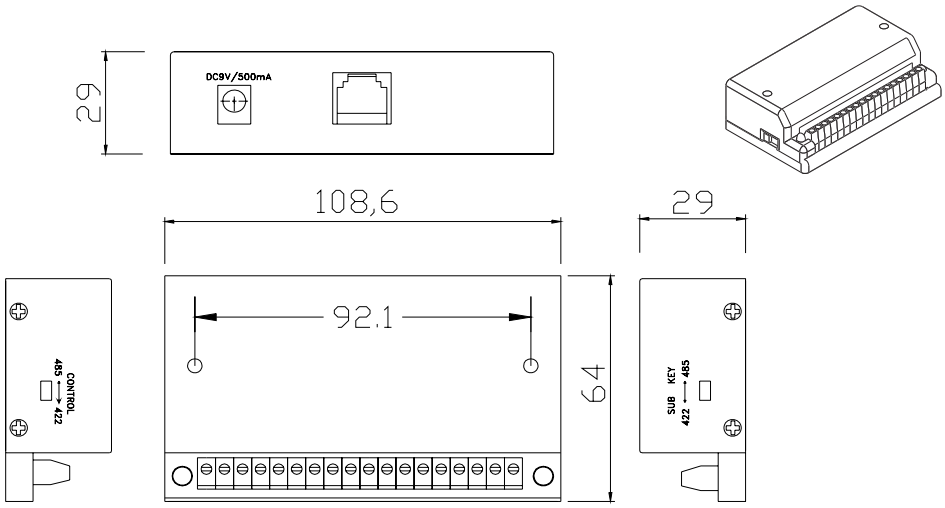
7. Simple Trouble Shooting

Please check out followings when you face some problems while installing or using.

Problem	Check Point	Reference
The power can't be brought.	Is the connection between keyboard and junction box correct?	Make sure to connect the Modular cable. (RJ45)
	Is the Power sources being supplied now?	Be sure to plug the power supply into the consent.
The camera can't pan/ tilt.	Did you press the camera number correctly?	Try again after pressing CLR button.
	Is the RX address the same as Camera address?	Check out again the DIP Switch of the RX.
It's not working in Sub-keyboard.	Hasn't the sub-keyboard address been repeated as you initially set?	Check setup of main/ sub-keyboard again.
	Has the data cable been connected correctly?	Check the connection and polarity of the data cable.
Preset movement is not working.	Have you set Preset positions at Preset mode?	Set Preset position and try again.
	Does the camera support Preset function?	Press number 3 and STATUS key and check out the camera model.
There is an error when setting motion.	Have you set it on Main keyboard?	It can't be set on Sub-keyboard.
Alarm can't be on..	Have you set off the all Alarm channels?	If you set it off it can't be on. Please refer to the Alarm setup page.

8. Appearance and Dimensions





JUNCTION BOX

9. General Specifications

A. Product Standard

Classification	Specification
Output Signal	● RS – 422 ● RS – 485
Communication speed	● Speed 9,600, 4,800, 2,400BPS, No parity, 8Bit data, 1Bit stop
Operation	● Control Pan/Tilt /Zoom lens ● Camera power On/Off , Light power On/Off , AUX On/Off ● Alarm On/Off , Preset set/clear ,OSD ● Control Matrix ● Main / Sub keyboard
Operating Status (Display)	● Display : LCD Display (The way to select Menu) ● Input ? : Number input by Key can be outputted. ● Camera : If camera is called input data can be outputted.(1~256) ● Monitor : If monitor is called input data can be outputted1-64)
Sound in Use	● When pressing key : Make a buzz sound for about 0.5seconds. ● When inputting wrong data : Make a buzz sound for 3 times. ● If alarm is sounded when Alarm is on : it keeps making a warning beep sound To release the Alarm, press "CLR" key.
Accessories	● Body of keyboard -1- ● Modular cable(RJ-45cable with 10M long) -1- ● Data junction box -1- ● DC 12V 1A Adaptor -1-

B. Controller Specification

ITEM	Specification
In/ Output Terminal	Modular jack
Communicate with Junction Box	TTL
Operating Temperature	0～40。C
Storage Temperature	-5～55°C
Operating Humidity	10～75%
Storage Humidity	10～95%
Dimension	338(L)×180(W)×45(H)
Weight	Approx. 1.2kg

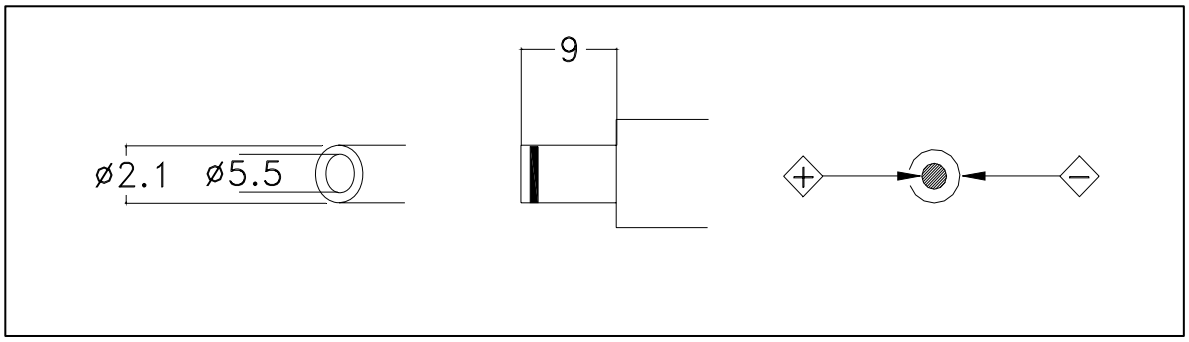
C.Junction Box Specification

Item	Specification
In/output terminal	Modular jack
Power supply	DC 12V, 1A Adapter
Camera Control	RS-485/RS-422
Operating temp.	0～40。C
Storage temp.	-5～55°C
Operating humid.	10～75%
Storage humidity	10～95%
Dimension	109(L)×66(W)×27(H)
Weight	Approx. 0.3kg

D. Power Supply

Voltage : DC 12V (±10%)

Current : 500mA (min)



E. CAMERA CONTROL INTERFACE

ITEM	Specification
Synchronization / System& word length	Asynchronous Serial Interface
	1 Start bit
	8 Data bit
	No parity
	1 Stop bit
	11 Byte command
Signal polarity	Mark logic "1"
	Space logic "0"
Transmit direction	Half duplex
Transmit speed	9600 bps

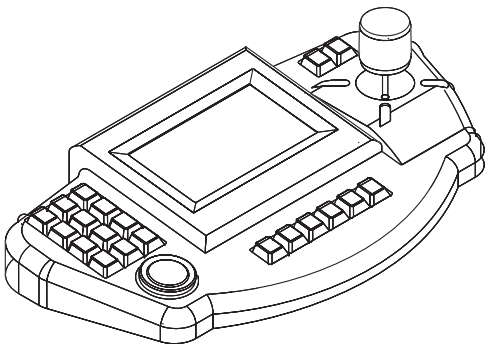
F. Constitution of pin between controller and junction box(Modular Jack)

Pin no.	Controller ↔ Junction box
1	RX-TXD
2	B+12V
3	RX-RXD
4	RX-RTS
5	GND
6	SK-TXD
7	SK-RTS
8	SK-RXD

10. Quick Reference

Operation	Function	Function Input	
		Main	Sub
Keyboard [1-64] + [MON]	Select Monitor	◎	◎
Keyboard [1-512] + [CAM]	Select Camera	◎	◎
Power supply ON + [SET]	Setting Controller	◎	◎
[SET] [SET]+[Joystick Stop]+[Keypad 1~128]+[PST] [Preset No]+[PST] [CLR+3sec]+[Keypad 1~128]+[PST]+[ENT] [CLR+3sec]+[PST]+[ENT]	Start Setup mode for Preset Run Preset, Preset movement Deleting each Preset Clear all Preset Positions	◎	◎
[SET]+[SWING] [1/2]+[ENT] [Keypad1~128]+[ENT]+[Keypad 1~128]+ [ENT] [Keypad 1~127]+[ENT] [Keypad 1~64]+[ENT] [1/2]+[SWING]	Start Setup mode for Swing Select Pan or tilt swing Select 2 different preset positions Set Swing Speed Set dwell time Run Pan or tilt swing Stop Swing	◎	◎
[SET]+[GROUP] [Keypad 1~6]+[ENT] [Keypad 1~64]+[ENT] [Keypad 1~64]+[ENT] [Keypad 1~127]+[ENT] [SET] [Keypad 1~12]+[GROUP] [GROUP]/Joystick	Start setup mode for Group Select Group number Select Preset point Set moving speed between Preset positions Set Dwell time Confirm Input value Run Group Surveillance Stop Group Surveillance	◎	◎
[SET]+[TOUR] [Keypad 1~12]+[ENT]←repeat [SET] [TOUR]	Start setup mode fro Tour Set Tour repeatedly End setup for Tour Run Tour Sequent surveillance	◎	◎
[C/P] + [ON/OFF]	Turn on/ off CCTV CAMERA power	◎	◎
[L/P] + [ON/OFF]	Turn on/ off CCTV LIGHT power	◎	◎

[7]+[MENU]+[ON] [7]+[MENU]+[OFF]	Run Spiral function Stop Spiral function	◎	
[Keypad〕 [1~512]+[CAM]+[10]+[MENU]+[ENT]	Camera Reboot	◎	
[20]+[MENU] Joystick up/down +[CLR]	Brightness Mode of LCD Ending brightness control	◎	◎
[11] + [MENU] + [ENT]	Converting Up / Down Mode	◎	
[12] + [MENU] + [ENT]	Converting Left / Right Mode	◎	
[15] + [MENU] + [1/2/3] + [ENT]	Converting Lens Voltage, 6V / 9V / 12V	◎	
Hold down [CLR] key for 3 seconds	Enter CLEAR MODE	◎	
[PRESET Number 1~64] + [PST]	Delete Preset position one by one	◎	
[PST] + [ENT]	Clear all Preset postions	◎	
[GROUP] + [ENT]	Clear all Group	◎	
[TOUR] + [ENT]	Clear Tour Sequence	◎	◎
[Sensor Number 1~255] + [ALARM	Delete Alarm one by one	◎	◎
[ALARM] + [ENT]	Clear all Alarms	◎	◎
[Monitor Number 1~64] + [MON]	Delete Monitor one by one	◎	◎
[[MON] + [ENT]	Clear all Monitors	◎	◎



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